THE JOHNS HOPKINS UNIVERSITY
BALTIMORE, MARYLAND

CONFERRING OF DEGREES

AT THE CLOSE OF THE SEVENTY-SIXTH ACADEMIC YEAR

JUNE 10, 1952

GILMAN HALL TERRACE

AT TEN A. M.

ORDER OF PROCESSION

CHIEF MARSHAL

Henry T. Rowell

Divisions	*Marshals*
1. The President of the University, the Chaplain, Honored Guests, the Trustees	Fritz Machlup
2. The Faculty	George Boas
3. The Graduates	Robert H. Roy Walter C. Boyer Elliot Coleman William H. Hoppman Robert R. Long Acheson J. Duncan Robert Maddin Richard H. Howland Gilbert F. Otto Barnett Cohen Clarence D. Long

USHERS

The ushers are members of Kappa Mu Chapter of Alpha Pi Omega, national service fraternity.

ORGANIST

John H. Eltermann

The audience is requested to stand as the academic procession moves into the area and remain standing until after the Invocation and the singing of the National Anthem.

ORDER OF EXERCISES

I

PROCESSIONAL

March and Chorus from "Judas Maccabaeus" by Handel

II

INVOCATION

REVEREND JOHN N. PEABODY
Church of the Incarnation

III

THE NATIONAL ANTHEM

IV

ADDRESS

JOHN FOSTER DULLES

V

CONFERRING OF HONORARY DEGREES

JOHN FOSTER DULLES	— presented by Professor MOOS
ALLEN WEIR FREEMAN	— presented by Professor STEBBINS
EVARTS AMBROSE GRAHAM	— presented by Professor RIENHOFF

VI

CONFERRING OF DEGREES

Bachelors of Arts	— presented by Dean COX
Bachelors of Engineering Bachelors of Science in Engineering Masters of Science in Engineering Doctors of Engineering	— presented by Dean KOUWENHOVEN
Bachelors of Science in Business	— presented by Dean HAWKINS
Bachelors of Science Bachelors of Science in Nursing Masters of Education	— presented by Dean MUMMA
Masters of Science in Hygiene Doctors of Science in Hygiene Masters of Public Health Doctors of Public Health	— presented by Professor STEBBINS
Doctors of Medicine	— presented by Dean CHESNEY
Masters of Arts, School of Advanced International Studies	— presented by Dean THAYER
Masters of Arts Doctor of Education Doctors of Philosophy	— presented by Professor LANCASTER

VII

BENEDICTION

VIII

RECESSIONAL

"Trumpet Voluntary" by Purcell

The audience is requested to remain standing after the Benediction until the graduates have left the area.

CANDIDATES FOR DEGREES

BACHELORS OF ARTS

Jay Edward Adams, of Baltimore, Md.
Raymond T. F. Aea, of Honolulu, Territory of Hawaii
David Ernest Aldridge, of Baltimore, Md.
Howard Everett Allen, of Baltimore, Md.
Bernard Franklin Anderson, of Towson, Md.
Albert Frank Anft, Jr., of Baltimore, Md.
Carl Lawrence Anson, of Baltimore, Md.
Robert McNeer Armstrong, of Midland, Va.
John Allen Astin, of Bethesda, Md.
Henry Allen Baer, of Baltimore, Md.
Leonard Earl Berk, of Pittsburg, Pa.
Hans Alfredo Bessin, of Caracas, Venezuela
Billy Z. Blackwell, of Hendersonville, N. C.
John Richard Bongiovanni, of Cazenovia, N. Y.
Russell Bosworth Bowen, of Eastford, Conn.
William Milton Bowen, Jr., of Baltimore, Md.
Walter Henry Breen, of Baltimore, Md.
Arthur Harold Briggs, Jr., of Clifton, N. J.
John James Brooksbank, of Baltimore, Md.
Robert Francis Brown, of Valley Stream, N. Y.
Paul Parker Burdon, Jr., of Arnold, Md.
Giovanni Victor Calabrese, of Baltimore, Md.
Lane Bernard Carpenter, of Baltimore, Md.
Theodore Robert Carski, of Baltimore, Md.
Jason Alvan Casler, of Boston, Mass.
John Claude Cavendish, of New York, N. Y.
Edward Moise Chemtob, of Alexandria, Egypt
* William Coleman Cohen, of Baltimore, Md.
Richard Hinckley Cox, of New Haven, Conn.
Victor John Dankis, of Maplewood, N. J.
Henry Flory Davis, Jr., of Baltimore, Md.
Tom Moore Dees, of Dallas, Tex.
George Parker Dix, Jr., of Baltimore, Md.
Scott Henry Douthett, of Pittsburg, Pa.
Allan Elwood Doyle, of Cedar Grove, N. J.
William Edward Edmonston, Jr., of Baltimore, Md.
Frederick Ernest Eidman, Jr., of Baltimore, Md.
* T. Donald Eisenstein, of Brooklyn, N. Y.
William King Engel, of University City, Mo.
William James Evans, of Baltimore, Md.
Carl Vincent Fasano, of Port Washington, N. Y.
Eliezer Richard Feinberg, of Mt. Vernon, N. Y.
John Edward Fisher, of Great Falls, Mont.
William Ralph Fonshell, Jr., of Baltimore, Md.
Robert Throckmorton Forman, of Chicago, Ill.
Charles Maurice Fornaci, of Baltimore, Md.
* John Freccero, of Corona, N. Y.
John Merritt Fritz, of Port Washington, N. Y.
Robert Perry Fuller, of Baltimore, Md.
Edwin Julius Galler, of Chicago, Ill.
Charles Barton Galloway, of Baltimore, Md.
Stanley Joseph Gardyas, of Baltimore, Md.
Francis Herbert Gay, of Baltimore, Md.
James McHenry Gillet, of Sparks, Md.
Dirk Marshall Gleysteen, of Plainfield, N. J.
Julian Robert Goldberg, of Baltimore, Md.
Samuel Alexander Green, Jr., of Towson, Md.
Alfred William Grigoleit, of Baltimore, Md.
Robert John Gross, of Baltimore, Md.
Richard Henry Gruninger, of Nutley, N. J.
Frank Eugene Harsh, of Williamsport, Md.
Webb Sellman Hersperger, of Poolesville, Md.
James Joseph Hill, of Baltimore, Md.
* Robert Louis Hill, of Johnstown, Pa.
Craig Damon Hobson, of North Attleboro, Mass.
* James Walter Holtzworth, of Baltimore, Md.
Edwin David Hoofnagle, of Baltimore, Md.
John Spencer Howell, of New York, N. Y.
* Ludwell Harrison Johnson, III, of Richmond, Va.
* Roscoe Esmond Jordan, Jr., of Oakland, Calif.
Albert Victor Kanner, of Baltimore, Md.
Carl Kaplan, of Laurelton, N. Y.
Lawrason Lee Kent, of Baltimore, Md.
Kenneth Earl Kilgore, of Ridgewood, N. J.
Louis Joseph Kolodner, of Baltimore, Md.
Michael Anthony Kormuth, of Clarksville, Pa.
* Frederick Herbert Kresse, of Paterson, N. J.
Richard Brown Kroeger, of Scarsdale, N. Y.
Norman Lee Kushnick, of Baltimore, Md.
Norman Wilbur Lavy, of Baltimore, Md.
James Harry Lawrence, of Baltimore, Md.
Bernard Levy, of Forest Hills, N. Y.
Daniel Judah Lieberman, of Princeton, N. J.
Nicholas Longo, of Ocean City, N. J.
Gerald Norton Maggid, of Baltimore, Md.
John Irvin Mandler, of Roslyn, Pa.
Donald Leonard Mantel, of Summit, N. J.
Robert Milton Thomas Markus, of Sheboyan, Wis.

* Graduating with departmental honors.

Donald Byrd Marston, of Baltimore, Md.
Daniel Searcy McCarter, of York Springs, Pa.
George Richard McGovern, of Ashtabula, Ohio
Theodore Bryan McIntire, Jr., of Baltimore, Md.
James Hughes McKay, Jr., of Baltimore, Md.
Garland Joseph Mears, of Baltimore, Md.
Milton Hartman Miller, of Pikesville, Md.
Charles Ellsworth Moylan, Jr., of Baltimore, Md.
Thomas Francis Mullady, III, of Rockville Center, N. Y.
Houshang Nasrin, of Teheran, Iran
Robert Anton Nebesar, of Bristol, Tenn.
Walter Joseph Nobers, of Midland, Pa.
Ralph Sturges O'Connor, of Madison, N. J.
Joshua Rowan Oden, Jr., of Birmingham, Ala.
Benson Israel Offit, of Baltimore, Md.
David Alan Oursler, of Baltimore, Md.
Lloyd Owens, of Riderwood, Md.
Peter Pastoriza, of Bronxville, N. Y.
Dushane Patterson, of Baltimore, Md.
Samuel Charles Pennington, III, of Baltimore, Md.
Raymond Joseph Pipino, of Baltimore, Md.
Andrew S. Polito, of Newark, N. J.
Irvin Paul Pollack, of Baltimore, Md.
John Owen Pope, Jr., of Baltimore, Md.
* Leonard Press, of Baltimore, Md.
Frank Primrose, III, of Pikesville, Md.
Abdul Nabi Rahman, of Ahwaz, Iran
Laurence Joseph Reddington, of Baltimore, Md.
Minoo Cursetji Reporter, of Bombay, India
Albert Bruce Reymond, of Watertown, Conn.
Donald Albert Ripke, of Baltimore, Md.
* Andrew Robert Walsh Roberts, of Linden, N. J.
* Harold Irvin Rodman, of Baltimore, Md.
Frank Edmund Russell, Jr., of Bethesda, Md.
* Robert Barry Rutherford, of New York, N. Y.
William Bryan Rutter, of Odenton, Md.
Carlos Salazar, of Guatemala City, Guatemala
Pow Sarasin, of Bangkok, Siam
Calvert Earl Schlick, Jr., of Baltimore, Md.
Copeland Hanna Schmidt, of Warren, Pa.
Peter Blair Schneidau, of Williamsville, N. Y.
Allen Wellington Schultz, of Baltimore, Md.
Edward Norman Schuster, of Baltimore, Md.
Robert Harvey Scott, of Baltimore, Md.
William Herbert Seldon, of Baltimore, Md.
Richard Beverley Sener, of Baltimore, Md.
Robert Freeman Siegfried, of Allentown, Pa.
Alvin Sirota, of Baltimore, Md.
James Gordon Smith, Jr., of Dover, Del.
Gilbert Bernard Snyder, of Hyattsville, Md.
Richard Edward Francis Stang, of Arlington, N. J.
William Nelson Stellman, of Pikesville, Md.
Norris Pilchard Sterling, Jr., of Catonsville, Md.
John Austen Stokes, Jr., of Glencoe, Md.
Robert Graham Sullivan, of Great Neck, N. Y.
Frank Joseph Takacs, of Bridgeport, Conn.
* Eng-Meng Tan, of Penang, Malaya
Ralph Myron Tandowsky, Jr., of Newport Beach, Calif.
Charles Kazuto Tashima, of Wahiawa, Territory of Hawaii
Theodore Abraham Tchack, of Baltimore, Md.
* Thomas Martin Teree, of Euclid, Ohio
William Holden Trombley, of New York, N. Y.
Edmund Richards Tweedy, Jr., of Darien, Conn.
E. Eugene Vanover, of Baltimore, Md.
Elliott Kirk Verner, of Stevenson, Md.
Roger Lyle von Heimberg, of Marinette, Wis.
Herbert Charles Wagner, of Baltimore, Md.
Robert William Warren, of Philadelphia, Pa.
John Godfrey Watt, of Longmeadow, Mass.
Helena Long Watts, of Baltimore, Md.
Harry Wilson Wells, of Baltimore, Md.
Eugene Lemoine Weston, of Baraboo, Wis.
Robert Reynolds Williams, of Pikesville, Md.
* Carl Stanley Wimberley, of Detroit, Mich.
Howard Joseph Wise, of Baltimore, Md.
Clyde Ying Chau Wu, of Hong Kong, China
Jerry Joseph Zavadil, of Baltimore, Md.
Martin Frederic Zavell, of Larchmont, N. Y.

(166)

GRADUATING WITH GENERAL HONORS

Henry Allen Baer
Eliezer Richard Feinberg
Robert Louis Hill
Ludwell Harrison Johnson, III
Roscoe Esmond Jordan, Jr.
Carl Kaplan
John Irvin Mandler
Andrew S. Polito
Leonard Press
Robert Barry Rutherford
Frank Joseph Takacs
Eng-Meng Tan
Charles Kazuto Tashima
Thomas Martin Teree
Roger Lyle von Heimburg

*Graduating with departmental honors.

BACHELORS OF ENGINEERING

Charles Bernard Anthony, of Hasbrouck Heights, N. J.
Edward Milton Arnold, of Baltimore, Md.
Russell James Arnsberger, of Baltimore, Md.
Donald Willis Bast, of Baltimore, Md.
Bohus Thomas Bata, of Belcamp, Md.
William Edward Bonner, of Glyndon, Md.
Edward Byerly Brucker, of Baltimore, Md.
Joseph Caprarola, Jr., of Baltimore, Md.
George Carl Carlstedt, Jr., of Baltimore, Md.
Edward Joseph Chrzanowski, of Baltimore, Md.
Outten Jones Clinard, Jr., of Washington, D. C.
Paul Andrew Carnegie Cook, Jr., of Baltimore, Md.
Donald Blades Creath, of Pocomoke City, Md.
William Paul Crownover, of Baltimore, Md.
Charles Albert Cummins, II, of Baltimore, Md.
Jack William DeHoff, of Baltimore, Md.
Palmerino Francis De Joseph, of Wayne, Pa.
Ralph Lynde Disney, Jr., of Baltimore, Md.
Thomas Edward Durney, of Baltimore, Md.
Richard Bassett Dyson, of Haddonfield, N. J.
Joseph Warren Fink, of Baltimore, Md.
John Joseph Fino, of Baltimore, Md.
Donald Roger Flinn, of Yonkers, N. Y.
William Campbell Fraser, Jr., of Baltimore, Md.
Edward Bernard Gamble, of Baltimore, Md.
Rexford Robert Gile, of Baltimore, Md.
John Charles Hass, of Baltimore, Md.
Carl Ernest Heath, Jr., of Statesville, N. C.
Bernard Hoffman, of Baltimore, Md.
Thomas Wilmer Hollis, Jr., of Baltimore, Md.
John Lawrence Holmes, of New York, N. Y.
John William Jenkins, of Baltimore, Md.
Lester Lawrence Jones, Jr., of Oradell, N. J.
Jerome Donald Julius, of Baltimore, Md.
Francis Joseph Kaisler, of Baltimore, Md.
Richard Koda, of Baltimore, Md.
Wilbur Harry George Kouk, of Baltimore, Md.
John Gerasimos Lagakos, of Brooklyn, N. Y.
William Harold Lambert, of Baltimore, Md.
Walter Louis Lapinski, of Chicago, Ill.
Jack Francis Lay, of Baltimore, Md.
Ferdinand Francis Leimkuhler, Jr., of Baltimore, Md.
Jerald Leish, of Baltimore, Md.
Arthur Edward Lemberg, of Nutley, N. J.
Mervyn John Lilley, of Baltimore, Md.
William Frederick List, of Baltimore, Md.
Wen-Ying Loh, of Hong Kong, China
I. David Long, Jr., of Baltimore, Md.
Robert William Long, of Glen Burnie, Md.
Richard Lewis Marcell, of Palisades Park, N. J.
Thomas Livingston McCubbin, of Hagerstown, Md.
William Cart McKenney, of Baltimore, Md.
William Eugene Meiers, of Baltimore, Md.
John George Merryman, of Baltimore, Md.
Charles David Miles, of Baltimore, Md.
Robert Rogers Mills, Jr., of Baltimore, Md.
John Gordon Neuberth, of Baltimore, Md.
Albert Baroch Orth, of Baltimore, Md.
Arnold Benicio Peinado, Jr., of El Paso, Tex.
William Joseph Sanders, of Baltimore, Md.
Wade Schaeffer, of Port Washington, N. Y.
William Edgar Scherer, of Baltimore, Md.
Chalmers Franklin Sechrist, Jr., of Shrewsbury, Pa.
Russell Louis Seelig, Jr., of Salisbury, Md.
Thomas Jacob Shafer, of Baltimore, Md.
Charles Robert Shanks, of Baltimore, Md.
Norman Earp Shipley, of Baltimore, Md.
Raymond Eugene Sibley, of Baltimore, Md.
Carl Caset Simmons, of Port Republic, Md.
George Donald Smith, of Frederick, Md.
Glenn Ellis Snyder, of Glen Rock, Pa.
William Gallahan Soper, of Clinton, Md.
Albert Robert Stallknecht, of Baltimore, Md.
Robert Wendell Summers, of Baltimore, Md.
Donald Lamont Tate, of Baltimore, Md.
William Buford Tittsworth, of Baltimore, Md.
Luther Lester Trott, Jr., of Baltimore, Md.
William Bond Truitt, of Snow Hill, Md.
Warren Viessman, Jr., of Baltimore, Md.
Charles Edward Wagner, of Baltimore, Md.
Richard Paul Wahl, Jr., of Cranford, N. J.
Richard Coale Willson, Jr., of Hagerstown, Md.
Thomas Dunn Wood, of Washington, D. C.
Newton Lee Worth, of Baltimore, Md.

(84)

GRADUATING WITH HONOR

Edward Joseph Chrzanowski
Paul Andrew Carnegie Cook, Jr.
William Paul Crownover
Donald Roger Flinn
Lester Lawrence Jones, Jr.
Arnold Benicio Peinado, Jr.
Chalmers Franklin Sechrist, Jr.
William Gallahan Soper
Albert Robert Stallknecht

BACHELORS OF SCIENCE IN CHEMICAL ENGINEERING

Melvin Lambert Halfpenny, of Baltimore, Md.
Edgar Leonard Perry, Jr., of Elizabeth, N. C.
Anthony Louis Promutico, of Baltimore, Md.
Carroll Edwin Stewart, of Baltimore, Md.
Herbert Maurice Stran, of Baltimore, Md.
Mordecai Norman Timbs, of Baltimore, Md.

(6)

BACHELORS OF SCIENCE IN CIVIL ENGINEERING

Edgar Brittain Harrod, Jr., of Baltimore, Md.
Daniel Robert Lucchesi, of Baltimore, Md.

(2)

BACHELORS OF SCIENCE IN ELECTRICAL ENGINEERING

William James Barkley, of Baltimore, Md.
Melvin Frederick Borleis, of Baltimore, Md.
David Harrison Boyer, III, of Baltimore, Md.
Amor Bues, of Baltimore, Md.
Louis Killian Callahan, of Emmitsburg, Md.
Rudolph Joseph Cerny, of Baltimore, Md.
John Gilbert Kaisler, of Baltimore, Md.
Paul George Meinschein, of Baltimore, Md.
Irving Mower, of Baltimore, Md.
Charles Robert Emmet Murphy, of Baltimore, Md.
Curtis Lawrence Paxton, of Port Deposit, Md.
Julius Simon, of Baltimore, Md.
Julian Sinclair Smith, of Baltimore, Md.
John Bowman Thomas, of New Kensington, Pa.

(14)

GRADUATING WITH HONOR

Melvin Frederick Borleis

BACHELORS OF SCIENCE IN INDUSTRIAL ENGINEERING

Raymond William Cole, of Baltimore, Md.
Richard Emmet Looby, Jr., of New Haven, Conn.
Joseph Earl Willhide, Jr., of Baltimore, Md.

(3)

BACHELORS OF SCIENCE IN MECHANICAL ENGINEERING

George Kennedy Dulaney, of Perryman, Md.
Albert Gregory Kelly, of Baltimore, Md.
Theodore Charles Moore, of Baltimore, Md.
Donald Earl Smith, of Baltimore, Md.
Hubert Arthur Ziegler, of Baltimore, Md.

(5)

MASTERS OF SCIENCE IN ENGINEERING

WITH TITLES OF ESSAYS

✓ Paul Bierstein, of Linwood, N. J., B. S. S. E. Pennsylvania State College, 1933. Sanitary Engineering and Water Resources.

Disinfectant Action of a Steel Pickling Acid Waste on a Domestic Sewage.

✓ Henry Clifton Bomhardt, of Baltimore, Md., B. E. The Johns Hopkins University, 1951. Civil Engineering.

An Analogy Between the Deflections of a Cantilever Beam under Uniform Load and a Model of Multi-Storied Building Frame Acting under Wind Load.

✓ Robert Alan Buckingham, of Newport News, Va., B. S. in C. E. University of Virginia, 1951. Sanitary Engineering and Water Resources.

Contamination and Decontamination Tendencies of Textile Fibers with Respect to I 131.

✓ Robert Franklin Comstock, of Regina, Sask., Canada, B. S. University of Saskatchewan, 1948. Sanitary Engineering and Water Resources.

Study of a Biological Sewage Treatment Device.

Stanley Seymour Copp, of Edmonton, Alta., Canada, B. A. Sc. University of British Columbia, 1943. Sanitary Engineering and Water Resources.

The Contamination and Decontamination of Rubber Gloves—P32.

Robert Dominick Cusumano, of New York, N. Y., B. S. Yale University, 1946; B. E., 1950. Sanitary Engineering and Water Resources.

The Effect of Crude Oil Extract on the Taste and Palatability of Oysters.

✓ William Walter Eitel, Jr., of Baltimore, Md., B. E. The Johns Hopkins University, 1943. Mechanical Engineering.

Thermal Bolt Stress Study in a High Pressure Flanged Pipe Joint.

Walton Milton Hancock, of McKeesport, Pa., B. E. The Johns Hopkins University, 1951. Industrial Engineering.

Lubrication and Maintenance of High Speed Printing Equipment.

✓ Edward Hooper Harris, of Tuscaloosa, Ala., B. S. in C. E. University of Alabama, 1936; B. S. in E. E., 1936. Civil Engineering.

A Photo-Elastic Analysis of a Beam with Transverse and Axial Loads.

✓ Melvin Snow Hastings, of Baltimore, Md., B. S. E. E. Tufts College, 1944. Electrical Engineering.

Murray Anthony Heine, of Baltimore, Md., B. E. The Johns Hopkins University, 1947. Chemical Engineering.

Sonic Velocity of Atmospheric Gases at High Frequency and Temperature.

✓ Floyd Isom Hill, of Aberdeen, Md., B. S. in M. E. University of Tennessee, 1943. Mechanical Engineering.

A Study of the Orifice Coefficient in Recoil Systems.

Robert Bruce Johnston, of Wrightsville Beach, N. C., B. S. Georgia Institute of Technology, 1934; B. S. in E. E., U. S. Naval Academy Postgraduate School, 1951. Electrical Engineering.

An Experimental Investigation of the Gains of Dielectric Antennas.

Shozo Kadoya, of Tokyo, Japan, B. E. Tokyo University, 1948. Sanitary Engineering and Water Resources.

A Study of the Settling Velocity of the Growing Particles in Liquid.

Alan Lee Kistler, of Baltimore, Md., B. E. The Johns Hopkins University, 1950. Aeronautical Engineering.

The Vorticity Meter.

Junichiro Matsumoto, of Gunma-Ken, Japan, B. S. Tokyo University, 1947. Sanitary Engineering and Water Resources.

Analysis of Premature Growth Signs for Forecasting the Presence of Coliform Pollution in Drinking Water.

Thomas Donald McKewen, of Baltimore, Md., B. E. The John Hopkins University, 1951. Sanitary Engineering and Water Resources.

Neutralization of Alkaline Wastes by Irrigation.

Robert Joseph McNicholas, of Boston, Mass., B. S. in Engr., Tufts College, 1946; B. S. in E. E., U. S. Naval Academy Postgraduate School, 1951. Electrical Engineering.

Theoretical and Experimental Study of a New, Small, High Speed, Linear Torque Motor (Polarized Relay Type).

Jack LeRoy Miles, of Marysville, Kansas, B. S. in E. E., U. S. Naval Academy Postgraduate School, 1951. Electrical Engineering.

An Analysis of an Electromechanical Analogue Computing System.

Charles Henry Murphy, Jr., of Los Angeles, Calif., B. S. Georgetown University, 1947; M. A. The Johns Hopkins University, 1948. Aeronautical Engineering.

Determination of Certain Aerodynamic Coefficients by Means of an Analog Computer.

Charles Joseph Quigley, of Glen Burnie, Md., B. S. Boston College, 1937. Chemical Engineering.

A Study of Gas Bubble Formation in Liquids.

Hiram Gene Slottow, of Baltimore, Md., S. B. University of Chicago, 1943. Electrical Engineering.

A High Stiffness Electromagnetic Weighing System.

Alfred Dwight Smythe, of Honolulu, Territory of Hawaii, B. S. in C. E. University of Hawaii, 1949. Sanitary Engineering and Water Resources.

Removal of Radioactive Phosphorus from Liquid Wastes by the Activated Sludge Process.

George Louis Walder, of Brookfield, Ill., A. B. University of California, Los Angeles, 1950. Civil Engineering.

Laboratory Investigations into the Effect of the Coriolis Force on the Velocity Distribution in Uniform Pipe Flow.

DOCTORS OF ENGINEERING

WITH TITLES OF DISSERTATIONS

Joshua Sheldon Bowen, Jr., of Barstow, Md., A. B. Western Maryland College, 1939; B. E. The Johns Hopkins University, 1941; M. Ch. E., 1948. Chemical Engineering.

Permeability Characteristics of a Polymeric Material of Controlled Porosity.

✓John William Dzimianski, of Baltimore, Md., B. E. The Johns Hopkins University, 1947. Electrical Engineering.

Characteristics of High Current Arcs in Argon with Various Electrode Materials.

Chesley Fisher Garland, of Tucson, Ariz., B. S. in C. E. Northeastern University, 1938; M. S. in S. E. Harvard University, 1939. Sanitary Engineering and Water Resources.

Water Quality of Baltimore Harbor.

✓John Walter Gibson, of Huntingtown, Md., B. E. The Johns Hopkins University, 1948; M. S. E., 1951. Electrical Engineering.

The Electric Strength of Sulfur Hexafluoride at Radio Frequencies.

✓Willis Carroll Gore, of Baltimore, Md., B. E. The Johns Hopkins University, 1948. Electrical Engineering.

Linear Pulse-Forming Networks.

✓Clarence Wilbur Little, Jr., of Crowley, La., B. E. The Johns Hopkins University, 1948. Electrical Engineering.

Contact Resistance.

✓James Hugh Mayes, of Baltimore, Md., B. S. Ch. E. Texas College of Arts and Industries, 1949; M. S. E. The Johns Hopkins University, 1951. Chemical Engineering.

Adsorption of Nitrogen at Varying Temperatures.

Patrick Nash Owens, of Galveston, Tex., B. S. C. E. Agricultural and Mechanical College of Texas, 1944. Sanitary Engineering and Water Resources.

The Aeration of Activated Sludge.

✓Robert Michael Salemi, of Baltimore, Md., B. E. The Johns Hopkins University, 1949; M. S. E., 1951. Chemical Engineering.

The Mechanism of Permeation of Various Gases through Linseed Oil Films.

✓Mahinder Singh Uberoi, of New Delhi, India, B. S. Punjab University, 1944; M. S. California Institute of Technology, 1946. Aeronautical Engineering.

I. On the Mapping and Measurement of Random Fields.

II. On the Correlations Involving Static Pressure Fluctuations in Homogeneous Turbulence.

(10)

BACHELORS OF SCIENCE IN BUSINESS

Harry Adler, of Baltimore, Md.
John Sidney Aitkens, of Mt. Airy, Md.
John Elston Baxter, of Baltimore, Md.
Eric Martin Beissinger, of Baltimore, Md.
William Augustine Bowling, Jr., of Baltimore, Md.
Richard Dawes Brown, of Mountain Lakes, N. J.
Robert Kevin Brown, of Bergenfield, N. J.
William Shackford Butler, of Boothbay Harbor, Me.
Harold Fremont Carr, Jr., of Baltimore, Md.
Paul Iglehart Carson, Jr., of Hinsdale, Ill.
Richard Earle Charlton, Jr., of Baltimore, Md.
David Hamilton Cole, of Bellerose, N. Y.
Joseph Francis DeSort, of Baltimore, Md.
Frank William Eckert, of Harrisburg, Pa.
Ira Brownold Fader, Jr., of Baltimore, Md.
Vernon Tristan Frankwich, of Baltimore, Md.
David Sydney Goldberg, of Mt. Vernon, N. Y.
Smith Ely Goldsmith, of New York, N. Y.
Frank Marion Gorsuch, III, of Owings Mills, Md.
William Horace Gowland, of Baltimore, Md.
James Gordon Green, of Towson, Md.
Zell Charles Hurwitz, of Baltimore, Md.
Joseph Clarence Jameson, III, of Baltimore, Md.
John Henry Kern, of Roselle, N. J.
William Henry Klinefelter, Jr., of Baltimore, Md.
Robert James Laird, of Baltimore, Md.
John Philip Lauber, of Baltimore, Md.
William Palmer Lee, of Baltimore, Md.
Edward Campbell Lenk, of Brookline, Mass.
Richard Martin Levin, of Lawrence, L. I., N. Y.
Thomas Clarke Lindsay, of Baltimore, Md.
Henry Faithful Garey Linthicum, of Baltimore, Md.
Robert Edgar McChesney, of Montclair, N. J.
James Anderson McComas, Jr., of Baltimore, Md.
Bernard Felix McGuigan, of Baltimore, Md.
Alan Brian Miller, of Baltimore, Md.
Edwin Sterling Miller, of Middlesex, N. J.
Maurice Thomas O'Neill, Jr., of Baltimore, Md.
John Marshall Pels, of Baltimore, Md.
Donald Richard Pfarr, of Baltimore, Md.
Robert Welles Pitkin, of Manhasset, L. I., N. Y.
John Charles Pohlhaus, of Baltimore, Md.
Frederic Anthony Printz, of Warren, Pa.
Howard Carlyle Russell, of Waldwick, N. J.
George August Schade, of Santurce, Puerto Rico

Richard Champlin Sheridan, Jr., of Baltimore, Md.
Theodore John Stieve, of Short Hills, N. J.
Edwin Thoet, Jr., of Forest Hills, N. Y.
Richard Brison Cumming Tucker, of Baltimore, Md.
Hugh Edward Wagner, Jr., of Baltimore, Md.
George Hamilton Warner, of Baltimore, Md.
Douglas Farwell Woolley, Jr., of Baltimore, Md.
Robin Joseph Zee, of Bryn Mawr, Pa.

(53)

GRADUATING WITH HONOR

Paul Iglehart Carson, Jr.

BACHELORS OF SCIENCE

Sophie Ann Abdallah, of Kinston, N. C.
Mary Barbara Barkley, of Baltimore, Md.
Barbara Ann Bartlett, of Bethlehem, Pa.
Justus Carroll Bateman, of Baltimore,Md.
Beatrice E. Benton, of Baltimore, Md.
Richard Paul Benton, of Baltimore, Md.
Sylvan Harris Better, of Baltimore, Md.
Grace Sigelman Block, of Baltimore, Md.
Edmund Arthur Bowen, Jr., of Baltimore, Md.
Russell William Bowman, of Seven Valleys, Pa.
Leonard Kelsey Brown, of Baltimore, Md.
Raymond Harrison Brown, of Baltimore, Md.
Leila Burnham, of Baltimore, Md.
William Patrick Colbert, of Baltimore, Md.
Nelle Atwood Dick, of Baltimore, Md.
Bessie Esterson, of Baltimore, Md.
Marjorie Wood Fay, of Baltimore, Md.
Stuart Feder, of New York, N. Y.
Arthur John Fisk, of Gloucester, Mass.
Arlene Marie Garverich, of Baltimore, Md.
Bertha Cummings Gillen, of Baltimore, Md.
William Frank Greenwood, of Baltimore, Md.
George Archer Grier, of Bel Air, Md.
Anne Wall Griffith, of Beverly, N. J.
Elizabeth Nussbaum Grob, of Baltimore, Md.
Ernest Hack, of Baltimore, Md.
Ann Caton Hansen, of Baltimore, Md.
Esther Moose Hansen, of Glen Burnie, Md.
Margaret Rhys Hawkins, of La Plata, Md.
Gertrude Hirschler, of Baltimore, Md.
Thelma Ditto Holbert, of Baltimore, Md.
Lorraine Harris Humer, of Carlisle, Pa.
Cynthia Ann Jaeger, of Takoma Park, Md.
Bernice Martinson Jones, of Pasadena, Md.
Ethel Lillian Kallins, of Baltimore, Md.
William Joseph Kimmel, Jr., of Baltimore, Md.
Norman Klein, of Baltimore, Md.
Zelik Klitenic, of Baltimore, Md.
Esther Kristman, of Baltimore, Md.
James Frank Kypta, of Baltimore, Md.
Mary Eloise Leonard, of Baltimore, Md.
Margaret Hinckley Lewis, of Baltimore, Md.
Martin L. Lowenthal, of Baltimore, Md.
Guy Walter Lucas, of Baltimore, Md.
Lydia Richmond Lutz, of Baltimore, Md.
Sheila Mary McCreery, of Lutherville, Md.
J. Norman Bien Miller, of Baltimore, Md.
Marjorie Elizabeth Miller, of Parkville, Md.
Shirley Ruth Neistadt, of Baltimore, Md.
Norma Jeanne Nonken, of Peabody, Kansas
Clarence James Ogilvie, of Baltimore, Md.
Francis Marsh Parisette, of North Stonington, Conn.
Vernice Elizabeth Parsons, of Stockton, Md.
Ellena Mary Pendergast, of Hutton, Md.
Garth Barton Pitsker, of Baltimore, Md.
Helen Marguerite Quimby, of Baltimore, Md.
Mary Rogers, of Baltimore, Md.
Harry Rottenberg, of Baltimore, Md.
Nellie Anita Rupp, of Baltimore, Md.
Beulah Weber Sarpalis, of Baltimore, Md.
Eugene Scheffres, of Washington, D. C.
Robert Herman Schlutter, of Baltimore, Md.
Mary Jane Hall Seth, of Baltimore, Md.
Ethel T. Sheaffer, of Baltimore, Md.
William Lucian Sieminski, of Glen Ridge, N. J.
Lee Dwight Smith, of Baltimore, Md.
Myra Ellen Spinner, of Bay City, Mich.
Saralee Baker Stein, of Baltimore, Md.
Raymond Frank Stone, of St. Louis, Mo.
Sidney Tepper, of Baltimore, Md.
Ruth Jane Timanus, of Baltimore, Md.
Margaret E. A. Rathell Townsend, of Baltimore, Md.
Marian Jones Wallace, of Baltimore, Md.
Wesley Preston Walters, of Baltimore, Md.
Mildred Anna Holdeman Watson, of Baltimore, Md.
Robert Leonard Weinberg, of Baltimore, Md.
Helen Eugenia White, of Norfolk, Va.
Ruth Edith Witmer, of Niagara Falls, N. Y.
Robert Moorman Woodside, of Elmira, N. Y.
Louise Young, of Baltimore, Md.
Nola Grace Hale Zaiser, of Lutherville, Md.
Irma Margaret Zipp, of Baltimore, Md.

(82)

GRADUATING WITH HONOR

Justus Carroll Bateman
Ann Caton Hansen
Norman Klein
Mary Eloise Leonard
Ethel T. Sheaffer

BACHELORS OF SCIENCE IN NURSING

Virginia Bell, of Montreat, N. C.
Rosetta Bentley, of Seattle, Wash.
Neila M. Bewkes, of Paterson, N. J.
Bette R. Blome, of Baltimore, Md.
Anne Elizabeth Boyle, of Glenside, Pa.
Elizabeth Anne Bradbury, of St. Petersburg, Fla.
Margaret Elizabeth Buderer, of Baltimore, Md.
Chiung Chen Fang Chang, of Fukien, China
Ella Elizabeth Derr, of Frederick, Md.
Betty Christine Droge, of Brooklyn, N. Y.
Anna Jeanne Fitzgerald, of Emmitsburg, Md.
Clara May Gray, of Washington, D. C.
Marian Frances Greifenstein, of Manchester, Md.
Marcia J. Jacobs, of Sheldon, Iowa
Wilma Kays, of Wichita Falls, Tex.
Mary Louise Kelly, of Spencer, Ind.
Patricia Walker Kirkland, of Seattle, Wash.
Mary Lou Lovelace Langlet, of Brunswick, Md.
Helen Elaine Leach, of Baltimore, Md.
Carolyn Mae Leedom, of Newtown, Pa.
Mary Ellen Mackert, of Sunbury, Pa.
Martha Ann McAffry, of St. Petersburg, Fla.
Charlotte Pierce McGee, of White Plains, N. Y.
Virginia Anne McKnight, of Dallas, Tex.
Johanna Katherine Petree, of Fountain City, Tenn.
Jean Audrey Richardson, of Woodberry, N. J.
Margaret Ann Ruppenthal, of Cumberland, Md.
Betty Lou Schwartz, of El Paso, Tex.
Jacqueline Bean Shaka, of Errol, N. H.
Ruth Kay Sidisin, of Roselle, N. J.
Frances Anne Signorelli, of Oceanside, L. I., N. Y.
Carol Josephine Smith, of Norfolk, Va.
Matilda Janet Snelling Smith, of Hartford, Conn.
Elizabeth Ann Stehly, of Elgin, Nebr.
Alice M. Tyler, of Partlow, Va.
Eleanor Beatrice Walker, of Baltimore, Md.
Marianne Walvoord, of Sheboygan Falls, Wis.

(37)

GRADUATING WITH HONOR

Marian Frances Greifenstein

MASTERS OF EDUCATION

Olga Virginia Bawden, of Baltimore, Md., A. B. Goucher College, 1943.

Harry Chayt, of Baltimore, Md., B. S. The Johns Hopkins University, 1935.

Edwin Cohen, of Baltimore, Md., B. S. The Johns Hopkins University, 1949.

Charles Norman Cramer, of Baltimore, Md., A. B. Emory University, 1926; A. M., 1930.

Isadore Allen Danenberg, of Baltimore, Md., B. S. The Johns Hopkins University, 1939.

Thelma Nina Pucci DeJacquin, of Baltimore, Md., A. B. St. Joseph's College, Emmitsburg, Md., 1948.

Hannah Mary Early, of Waynesboro, Va., B. S. Madison College, Harrisonburg, Va., 1940.

Frederick S. Eyster, of Baltimore, Md., B. S. Springfield College, 1942.

Margery Willis Harriss, of Baltimore, Md., B. S. State Teachers College, Towson, Md., 1936.

J. Leonard Hirschhorn, of Baltimore, Md., B. S. The Johns Hopkins University, 1950.

Lena Burwell Hobbs, of Baltimore, Md., A. B. Concord College, 1942.

Elaine Everett Knorr, of Pikesville, Md., A. B. Goucher College, 1948.

Hildreth Schaffer Lambert, of Baltimore, Md., B. S. University of Maryland, 1941.

Warren A. Ledford, of Baltimore, Md., A. B. Western Maryland College, 1943.

Elizabeth Leonor Meise, of Southampton, L. I., N. Y., B. S. New York University, 1950.

Charles William Mowery, of York, Pa., B. S. State Teachers College, Millersville, Pa., 1947.

Ivan Gill Nolte, of Reistertown, Md., B. S. State Teachers College, Towson, Md., 1938.

Marjorie Anne Wiley Nolte, of Reistertown, Md., A. B. College of Notre Dame of Maryland, 1944.

Helen Hudson Pollard, of Baltimore, Md., B. S. Radford College, 1940.

Isaac Schkloven, of Baltimore, Md., B. S. State Teachers College, Towson, Md., 1943.

Marie Louise Butzler Schmuck, of Baltimore, Md., B. S. The Johns Hopkins University, 1948.

Hilda Olte Timmerman Schwartz, of Baltimore, Md., B. S. The Johns Hopkins University, 1949.

Sister Mary Edwin Shannon, S. S. N.D., of Griffin, Georgia, B. S. College of Notre Dame of Maryland, 1946.

Hunter C. Sutherland, of Baltimore, Md., A. B. Berea College, 1935.

Betty Marie Taksar, of Baltimore, Md., A. B. Goucher College, 1948.

Sarah Street Van Camp, of Baltimore, Md., A. B. Antioch College, 1942.

Dorothy Helen Volkman, of Baltimore, Md., B. S. State Teachers College, Towson, Md., 1938.

Charlotte Marie Wagner, of Baltimore, Md., B. S. The Johns Hopkins University, 1949.

Shirley Mauguerite Vance Wood, of Baltimore, Md., B. S. State Teachers College, Towson, Md., 1948.

(29)

MASTERS OF SCIENCE IN HYGIENE

WITH TITLES OF THESES

Lawrence Earl Barron, of Baltimore, Md., B. S. The College of William and Mary, 1949. Bacteriology.

Studies on the Immobilization of *Treponema pallidum* by Antibody and Complement.

Edith Ellen Nell, of Waynesboro, Pa., A. B. Wilson College, 1941. Bacteriology.

Studies on the *in vitro* Treponemicidal Action of Penicillin; Comparative Sensitivities of Various Strains of *Treponema pallidum, Treponema pertenue* and Bejel Treponemes.

Ruth Ann Webster, of La Grange, Ga., A. B. La Grange College, 1947. Bacteriology.

The Uptake of Radioactive Phosphorus by the Embryonated Egg.

(3)

DOCTORS OF SCIENCE IN HYGIENE

WITH TITLES OF DISSERTATIONS

Allan Ralph Barr, of Dallas, Tex., B. S. Southern Methodist University, 1948. Parasitology.

Hybridization and Thermal Death Time Experiments with Some American Dark-Winged *Anopheles*.

Robert Zanes Brown, of Baltimore, Md., B. A. Swarthmore College, 1948. Parasitology.

Social Behavior, Reproduction, and Population Changes in the House Mouse (*Mus musculus* L.).

Richard Herbert Foote, of Helena, Mont., B. S. Montana State College, 1942. Parasitology.

The Immature Stages of the *Culex* Subgenera *Melanoconion* and *Mochlostyrax* (Diptera, Culicidae).

William Bruce Jackson, of Milwaukee, Wis., B. A. University of Wisconsin, 1948; M. A., 1949. Parasitology.

Effects of DDT and Parathion as Used in Agriculture upon Populations of the Wood Mouse (*Peromyscus leucopus* Rafinesque).

Alonza Casson Johnson, of Brooklyn, N. Y., B. S. Morgan State College, 1946; Sc. M. in Hyg. The Johns Hopkins University, 1949. Biochemistry.

Peptide Co-factors in Enzymatic Proteolysis.

Chiun-Tong Ling, of Tsingtao, China, M. D. Nippon Medical College, 1926; M. P. H. The Johns Hopkins University, 1946. Biochemistry.

Studies on the Metabolic Role of Vitamin B_{12}.

Joseph Philip Lowenthal, of Forest Hills, N. Y., A. B. Brooklyn College, 1939. Bacteriology.

Studies on the Nature of the Botulinal Hemagglutination Reaction.

Ralph Edward Thorson, of Chatfield, Minn., B. S. University of Notre Dame, 1948; M. S., 1949. Parasitology.

Studies on Immunity to the Rat Nematode, *Nippostrongylus muris*.

(8)

MASTERS OF PUBLIC HEALTH

Antonio Acosta-Martinez, of Maracay, Venezuela, M. D. Central University, Caracas, 1938.

Robert Harold Adams, U. S. Air Force, A. B. University of Kansas, 1947; M. D., 1950.

Robert Scurry Anderson, U. S. Army, B. S. Bucknell University, 1933; M. D. Temple University, 1937.

William Henry Bandy, of Milford, Del., B. S. Appalachian State Teachers College, 1937; M. D. Medical College of Virginia, 1941.

Edith Beyer Pedersen Bierstein, of Copenhagen, Denmark, R. N. Kallundborg Hospital, Denmark, 1936; P. H. Nurse Aarhus University, 1942.

Michel Ary Bordes, of Port au Prince, Haiti, B. A. College of St. Martial, 1941; M. D. University of Haiti, 1947.

Joshua Carter Bray, U. S. Air Force, B. A. Lafayette College, 1945; M. D. New York University, 1948.

Josina Fenna Burger, of Soest, Holland, R. N. Nursing School, Berweg, Rotterdam, Holland, 1935.

Cheng-Teh Ch'en, of Taipeh, Taiwan, China, M. D. National Taiwan University, 1947.

Milo Albert Churchill, of Chattanooga, Tenn., B. S. University of Illinois, 1933.

Clifford Harvey Cole, U. S. Public Health Service, B. S. Cornell University, 1943; M. D. University of Rochester, 1948.

Jose Augusto Coll, of Santa Fe, Argentina, M. D. National University of the Littoral, 1945.

Harold Prestwood Coston, of Winston Salem, N. C., B. S Wake Forest College, 1946.

Angelo Cruz, of Rio de Janeiro, Brazil, M. D. National Faculty of Medicine, 1939.

Kay Robinson Cutler, U. S. Air Force, B. S. University of Utah, 1947; M. D. 1950.

Harold Clayton Davis, U. S. Air Force, D. V. M. Alabama Polytechnic Institute, 1947.

Carlos Antonio Diaz del Pinal, of San Salvador, El Salvador, M. D. University of El Salvador, 1942.

Alonzo McWilliams Donnell, Jr., U. S. Air Force, B. A. Blue Mountain College, 1937; M. S. University of Mississippi, 1941; M. D. University of Colorado, 1950.

Peter Robert Ellis, of Cheshire, England, M. R. C. V. S. Royal (Dick) Veterinary College, 1947; B. Sc. University of Edinburgh, 1948.

John Edward Fauber, of Silver Spring, Md., D. D. S. University of Pennsylvania, 1929.

Miles Joseph Orlando Gullingsrud, of Le Grande, Ore., A. B. University of North Dakota, 1935; B. S. (Med.), 1937; M. D. Harvard University, 1939.

Takeshi Hirayama, of Tokyo, Japan, M. D. Manchurian Medical College, 1947.

Fernando Huncal, of Caracas, Venezuela, M. D. Central University, Caracas, 1940.

Patricia Harrison Husson, of Center Point, Tex., A. B. Goucher College, 1940; M. D. The Johns Hopkins University, 1943.

Lee Davidson Janis, of Brooklyn, N. Y., B. S. College of the City of New York, 1936; M. D. New York University, 1940.

Indrani Williams Jayewardene, of Maradana, Ceylon, M. B., B. S. Medical Faculty of Ceylon University, 1943.

Robert William Jessee, of Cleveland, Va., M. D., University of Tennessee, 1946.

Christian Robert Klimt, of Geneva, Switzerland, M. D. University of Vienna, 1944.

Robert Hutson Kokernot, of Alpine, Tex., D. V. M. Agricultural and Mechanical College of Texas, 1946; M. D. Baylor University, 1950.

George Edward Lacy, of Miami, Fla., B. S. Milligan College, 1936; M. D. Vanderbilt University, 1941.

Chiu-Yang Lee, of Tainan, Taiwan, China, M. D. Taihoku Imperial University, 1942.

Huan-Ying Li, of Hongkong, China, M. D. National Tung-Chi University, 1945.

Minoru Matumoto, of Tokyo, Japan, M. D. University of Tokyo, 1939.

James Thomas McGibony, U. S. Army, B. S. Emory University, 1930; M. S. 1931; M. D. 1935.

Pablo Mendoza Hernandez, of Mexico City, Mexico, M. D. National Faculty of Medicine, 1935.

Satyadas Henry Moses, of Madras, India, M. B., B. S. Andhra Medical College, 1937; B. S. Sc. Medical College of Madras, 1940.

Hernán Moya, of Santiago, Chile, M. D. University of Chile, 1936.

Alfred Detterline Moyer, of Philadelphia, Pa., R. N. City Hospital, Worcester, Massachusetts, 1938; A. B. Temple University, 1950.

Cherukat Padmanabhan Nair, of Palghat, South Malabar, India, D. M. S. Stanley Medical College, 1938.

Robert Seiso Nekomoto, of Honolulu, Territory of Hawaii, B. S. University of Hawaii, 1939; M. S. 1940.

Harry Arthur Nevel, of Jacksonville, Fla., A. B. Connecticut State College, 1933; M. D. University of Michigan, 1938.

Elizabeth Proctor Overby, of New York, N. Y., R. N. Gallinger Municipal Hospital, Washington, D. C., 1940; B. S. The College of William and Mary, 1944.

Ralph Seal Paffenbarger, Jr., U. S. Public Health Service, A. B. Ohio State University, 1944; B. M. Northwestern University, 1946; M. D. 1947.

Gordon Maynard Parrott, of Tacoma, Wash., B. S. University of Washington, 1935; M. D. Northwestern University, 1940.

Alois Peczenik, U. S. Army, M. D. University of Vienna, 1948.

Paul David Pedersen, U. S. Public Health Service, M. D. University of Nebraska, 1945.

Carlos Arturo Penaloza, of Armero, Tolima, Colombia, M. D. School of Medicine of Bogota, 1948.

Georgia Burnetta Perkins, of Denver, Col., A. B. Western College, 1942; M. D. University of Colorado, 1945.

Kenneth Delaney Quarterman, U. S. Public Health Service, B. S. Mississippi State College, 1947.

Krishna Swamy Rao, of Mysore, India, M. B. B. S. Mysore University, 1940; D. P. H. Calcutta University, 1948.

Arnold Michael Reeve, U. S. Army, M. D. Wayne University, 1950.

Julian Adalberto Rodriguez, of San Salvador, El Salvador, M. D. University of El Salvador, 1948.

Martha Elizabeth Rogers, of Phoenix, Ariz., R. N. Knoxville General Hospital School of Nursing, Knoxville, Tennessee, 1936; B. S. George Peabody College for Teachers, 1937; M. A. Columbia University, 1945.

Harvey Louis Rubin, U. S. Army, D. V. M. Alabama Polytechnic Institute, 1939; M. S. University of Kentucky, 1940.

William Gordon Simpson, U. S. Public Health Service, B. S. Emory University, 1940; M. D. 1944.

William Shepherd Smith, U. S. Army, B. S. University of Virginia, 1934; M. D. 1938.

William Raymond Stinger, of Panama City, Fla., B. S. University of Pittsburgh, 1945; M. D. 1948.

Subhatra Suvanamalik, of Bangkok, Thailand, M. B. University of Medical Science, 1947.

William Robertson Turner, U. S. Air Force, A. B. Indiana University, 1944; M. D. 1946.

Ton van Strien, of Leiden, Holland, M. D. University of Leiden, 1950.

Eugene Edward Van Vranken, U. S. Air Force, M. D. University of St. Louis, 1946.

Dorothy Kathryn Whitney, of Juneau, Alaska, R. N. Washington University, 1936; B. S. in Nursing 1936.

Telford Hindley Work, of Pacific Palisades, Calif., A. B. Stanford University, 1942; M. D. 1946; D. T. M. & H. University of London, 1949.

Paul Eugene Wright, U. S. Air Force, B. S. University of Tennessee, 1943; M. D. Harvard University, 1945.

Charles Murray Wylie, of Greenock, Scotland, M. B., Ch. B. University of Glasgow, 1947.

Anthony John Zolenas, Jr., U. S. Army, Ph. G. University of Maryland, 1931.

(66)

DOCTOR OF PUBLIC HEALTH

WITH TITLES OF THESES

Joaquim de Oliveira Costa Maia, of Porto, Portugal, M. D. University of Porto, 1945; M. P. H. The Johns Hopkins University, 1949. Epidemiology.

Some Mathematical Developments on the Epidemic Theory Formulated by Reed and Frost.

(1)

DOCTORS OF MEDICINE

Edward Lee Alexander, Jr., of Newport News, Va., A. B. Yale University, 1948.

Leroy Willis Allen, of Lisbon Falls, Me., S. B. Eastern Nazarene College, 1948.

William Archibald Asbury, of Bozeman, Mont., S. B. Montana State College, 1948.

Matthew Smith Atkinson, III, of Garrison, Md., A. B. Princeton University, 1948.

Richard McGuire Auld, of Takoma Park, Md., S. B. Georgetown University, 1943.

Mary Ellen Avery, of Moorestown, N. J., A. B. Wheaton College, Norton, Mass., 1948.

Peter Paul Barlow, of Detroit, Mich., A. B. The Johns Hopkins University, 1948.

James Williams Bartlett, Jr., of Baltimore, Md., A. B. Harvard University, 1948.

John David Bonnet, of Hatboro, Pa., S. B. University of Illinois, 1948.

George Cummings Brown, Jr., of San Diego, Calif., S. B. U. S. Naval Academy, 1944.

Frederick Bedell Burt, of Pasadena, Calif., S. B. California Institute of Technology, 1948.

William John Hughes Butterfield, of Birmingham, England, A. B. Exeter College, Oxford University, 1942.

William Armstead Campbell, of Colorado Springs, Col., A. B. Stanford University, 1948.

Sanford Chodosh, of Carteret, N. J., A. B. University of Virginia, 1948.

Thomas Beale Cockey, III, of Baltimore, Md., A. B. The Johns Hopkins University, 1948.

Jack Cornelius Collins, of Sparks, Nev., A. B. University of Nevada, 1948.

Richard Curzon Dever, of Jackson, Miss., S. B. Millsaps College, 1948.

David Clarence Dorr, of Mount Rainier, Md., A. B. The Johns Hopkins University, 1948.

John Whinham Doss, of Chicago, Ill., S. B. Illinois Wesleyan University, 1948.

Duane Leroy Drake, of Nampa, Idaho, A. B. College of Idaho, 1947.

Shepard Nash Dunn, of Sumter, S. C., S. B. Davidson College, 1948.

Frank Joseph Eurs, of Trenton, N. J., S. B. Purdue University, 1947.

William Hathaway Forbes, of Milton, Mass., A. B. Harvard University, 1923; A. M., 1932; Ph. D. Trinity College, Cambridge, England, 1932.

John Hoskins Foster, of Dallas, Tex., A. B. University of Texas, 1948.

John Paul Foxworthy, of Franklin, Ind., A. B. The Johns Hopkins University, 1948.

Robert Franklin, of Flint, Mich., A. B. Central Michigan College, 1947.

Robert Anthony Gaertner, of Baltimore, Md., A. B. The Johns Hopkins University, 1948.

George Gaffney, of Tampa, Fla., A. B. Duke University, 1945.

Leonard Myrton Gaines, Jr., of Baltimore, Md., A. B. Princeton University, 1948.

Kare Gundersen, of Stavanger, Norway, A. B. University of Minnesota, 1948.

Robert Allan Harder, of Lynbrook, N. Y., S. B. Worcester Polytechnic Institute, 1944.

Jeff Williams Harris, of Jackson, Miss., S. B. Mississippi State College, 1947.

Elizabeth Dexter Hay, of Melbourne, Fla., A. B. Smith College, 1948.

Louis Rollin Head, of Evanston, Ill., A. B. Amherst College, 1948.

Hugh Meighan Hill, of Greensboro, N. C., S. B. Davidson College, 1948.

Schuyler Van Dusen Hilts, of White Salmon, Wash., A. B. Stanford University, 1948.

James Irvin Hudson, Jr., of Wilmington. Del., A. B. Cornell University, 1948.

Arthur Lee Humphries, Jr., of Columbia, S. C., S. B. The Citadel, 1948.

Julius Herman Jacobson, II, of New York, N. Y., S. B. University of Toledo, 1947; M. S. University of Pennsylvania, 1948.

Philip James Jensen, Jr., of Owings Mills, Md., A. B. University of Virginia, 1947.

Henry Neil Kirkman, Jr., of Tallahassee, Fla., S. B. Georgia School of Technology, 1947; M. S. Emory University, 1950.

Alfred Conrad Kolls, Jr., of Clear Lake, Iowa, S. B. University of Chicago, 1947.

Carl Kupfer, of Baldwin, L. I., N. Y., A. B. Yale University, 1948.

Jules Francis Langlet, of Clarksburg, W. Va., A. B. West Virginia University, 1948.

Eleazer Frederick Laschever, of Hartford, Conn., A. B. The Johns Hopkins University, 1948.

Agnes Lander Lawing, of Lincolnton, N. C., A. B. Greensboro College, 1947.

Wilbur Erskine Mattison, Jr., of Anderson, S. C., S. B. The Citadel, 1943.

Patricia Ann McIntyre, of Joliet, Ill., A. B. Kalamazoo College, 1948.

John Maurice McKain, of Columbus, Ind., A. B. Franklin College, 1948.

John Mealey, Jr., of Providence, R. I., A. B. Brown University, 1949.

Robert Bere Mellins, of Brooklyn, N. Y., A. B. Columbia University, 1948.

John Hans Menkes, of Los Angeles, Calif., A. B. University of Southern California, 1947; M. S., 1951.

Laura Jane Montague, of Edinburg, Tex., A. B. and S. B. University of Texas, 1948.

Harry David Mosier, Jr., of Herington, Kan., S. B. University of Notre Dame, 1948.

Donald Gerrit Mulder, of Ann Arbor, Mich., A. B. Hope College, 1948.

John Otto Neustadt, of Baltimore, Md., A. B. St. John's College, 1939; A. M., 1942.

Alfred George Ossman, Jr., of Baltimore, Md., S. B. Franklin and Marshall College, 1948.

Lee Crandall Park, of Falls Church, Va., S. B. Yale University, 1948.

Theodore Vandoren Parran, of Pittsburgh, Pa., A. B. The Johns Hopkins University, 1948.

Frederick Stanley Porter, Jr., of Baltimore, Md., S. B. Princeton University, 1948.

Leslie Charles Powell, Jr., of Beaumont, Tex., S. B. Southern Methodist University, 1948.

Thomas Allen Ray, of Washington, D. C., A. B. The Johns Hopkins University, 1948.

Earl Albert Rinkenberger, of Gridley, Ill., A. B. Howard College, 1948.

Herbert Houston Robinson, of Waynesboro, Miss., S. B. Mississippi College, 1948.

Charles Milton Rogers, of Sayville, N. Y., A. B. University of Delaware, 1948.

Otto Peter Schumacher, of Stockton, N. J., A. B. Dartmouth College, 1949.

James Athan Shaka, of Manchester, N. H., S. B. University of New Hampshire, 1948.

Howard Lee Smith, of Marlin, Tex., S. B. Virginia Military Institute, 1948.

Gerald Sanford Spear, of Providence, R. I., A. B. Harvard University, 1948.

Thomas Alexander Stamey, of Rutherfordton, N. C,. A. B. Vanderbilt University, 1948.

Joseph Hauver Stephens, of Frederick, Md., A. B. The Johns Hopkins University, 1948.

George Taylor Tindall, of Magee, Miss., A. B. University of Mississippi, 1948.

Henry Nicholas Wagner, Jr., of Baltimore, Md., A. B. The Johns Hopkins University, 1948.

Robert Tressel White, of Alliance, Ohio, A. B. The Johns Hopkins University, 1947.

Tiffany Johns Williams, of University, Va., A. B. University of Virginia, 1948.

Stewart MacKay Wolff, of Baltimore, Md., A. B. Princeton University, 1947.

Alexander Hamilton Woods, of New York, N. Y., S. B. Harvard University, 1948.

Warren Wilbur Wurzbacher, of Baltimore, Md., A. B. The Johns Hopkins University, 1948.

Mohsen Ziai, of Meshed, Iran, S. B. Davis and Elkins College, 1948.

(79)

MASTERS OF ARTS

IN THE SCHOOL OF ADVANCED INTERNATIONAL STUDIES

Frans Constant Baeklandt, of Kortrijk, Belgium, J. D. Catholic University of Louvain, 1951; Lic. en Sc. Pol. et Dipl., 1951.

George Milton Barbis, of Oakland, Calif., A. B. University of California, Berkeley, 1950.

Jerzy Teodor Bigosinski, of Yonkers, N. Y., A. B. Illinois College, 1951.

Jan Bryn, of New York, N. Y., B. B. A. The College of the City of New York, 1951.

William Morris Carson, of Chicago, Ill., B. S. Columbia University, 1950.

Michael Louis DiLegge, of Bronx, N. Y., B. S. Fordham University, 1949.

Thomas John Draper, Jr., of New York, N. Y., B. A. Amherst College, 1950.

Marijane Eastman, of West Orange, N. J., A. B. Upsala College, 1951.

Sheila Cunningham Engert, of Washington, D. C., A. B. Vassar College, 1949.

Rafael Gregorio Fernando, of Rizal, Republic of the Philippines, B. A. University of Southern California, 1951.

Dale Emil Garrison, of Grand Rapids, Mich., B. A. Miami University, 1950.

William-Henry Burlingame Jaques, of Lenox, Mass., A. B. Harvard College, 1947; Dipl. Inst. Pol. University of Paris, 1951.

George Donald Johnston, Jr., of Birmingham, Mich., A. B. Michigan State College, 1950.

Milton Kovner, of Bronx, N. Y., B. S. in S. Sc., The College of the City of New York, 1951.

James Donald McHale, of Allston, Mass., A. B. Boston University, 1951.

Calvin Edward Mehlert, of Fresno, Calif., B. A. University of California, Berkeley, 1951.

Charles Russell Meyer, of New Philadelphia, Ohio, B. A. Muskingum College, 1951.

Seiya Nishida, of Tokyo, Japan, B. Comm. Tokyo University of Commerce, 1945.

Claude Charles Noyes, of Rochester, N.Y., A. B. Grinnell College, 1951.

Irwin Sayer, of Long Beach, N. Y., A. B. Syracuse University, 1951.

Robert Warren Schaaf, of Rochester, N. Y., B. A. Hamilton College, 1950.

Rae Durgin Stillman, of Wareham, Mass., B. A. Bates College, 1951.

Donald Francis Sullivan, of Potsdam, N. Y., B. S. in F. S. Georgetown University, 1950.

Richard Freeland Weber, of Alameda, Calif., A. B. Whitman College, 1949.

Robert Nowell White, of Boston, Mass., A. B. Harvard College, 1950.

Juliana DuBois Wilson, of Hyannis, Mass., B. A. University of Maryland, 1950.

Robert Molton Yates, of Dallas, Tex., A. B. Southern Methodist University, 1951.

(27)

MASTERS OF ARTS

WITH TITLES OF ESSAYS

Steven Abashian, of Binghamton, N. Y., B. S. Rensselaer Polytechnic Institute, 1950. Chemistry.

Clark Claus Abt, of New York, N. Y., S. B. Massachusetts Institute of Technology, 1951. Writing, Speech and Drama.

A Year of Poems.

Ruth Horwitz Aranow, of Brooklyn, N. Y., B. S. Brooklyn College, 1951. Chemistry.

Thomas Robert Austin, of Chicago, Ill., A. B. Wabash College, 1950. Psychology.

John Simmons Barth, of Cambridge, Md., A. B. The Johns Hopkins University, 1951. Writing, Speech and Drama.

Shirt of Nessus: A Novel.

Bruce Peter Berlind, of Woodmere, N. Y., A. B. Princeton University, 1948. English.

James Kauffman Binder, of Bethlehem, Pa., A. B. Lehigh University, 1941. English.

Whitney Blair, of Wayland, Mass., A. B. Harvard College, 1948. Classics.

Barbara Evelyn Blaustein, of Pikesville, Md., B. A. Connecticut College, 1950. Political Science.

Stanley Block, of Baltimore, Md., Chemistry.

Phoebe Ten Yin Ho Bock, of Baltimore, Md., B. S. Simmons, College, 1948. Writing, Speech and Drama.

The Prevalent Vowel and Diphthong Distortions in the Speech of Some Children of Baltimore, Maryland.

Peter Dock Bricker, III, of Haddonfield, N. J., A. B. Bucknell University, 1950. Psychology.

Edward Woodman Brown, of Baltimore, Md., B. S. Princeton University, 1923. Education.

Garbiele Bettina Eleonore Bruck, of Frankfort am Main, Germany. Education.

Rose Burgunder, of Baltimore, Md., B. A. Wellesley College, 1950. Writing, Speech and Drama.

Poems.

Walter Dean Burnham, of Baltimore, Md., B. A. The Johns Hopkins University, 1951. Political Science.

Presidential Elections: 1836-1892.

Virgil R. Carlson, of Stockton, Calif., A. B. University of California, Berkeley, 1950. Psychology.

James Heiskell Carpenter, of Salisbury, Md., A. B. University of Virginia, 1949. Oceanography.

Robert Willoughby Corrigan, of St. Paul, Minn., A. B. Cornell University, 1950. Writing, Speech and Drama.

The Antigone of Sophocles and the Modern Theatre.

Emanuel Feldman, of Baltimore, Md., B. S. The Johns Hopkins University, 1949. Writing, Speech and Drama and Oriental Seminary.

The Dead Musician and Other Stories of Y. L. Peretz, Translated from Hebrew and Yiddish.

Albert L. Fisher, of Salt Lake City, Utah, B. S. University of Utah, 1951. Geography.

Recent Political and Economic Geography of Netherlands America.

Percy Mellor Floyd, Jr., of Boonville, Mo., B. S. in Ed. Central Missouri State College, 1940. Geography.

Horizontal and Vertical Temperature Gradients in the Air Layer near the Ground.

Werner Juergen Fries, of Baltimore, Md., B. S. The Johns Hopkins University, 1948. German.

Ginnistan und Eros, Ein Beitrag zur Symbolik in "Heinrich von Ofterdingen."

Francis Stanley Grubar, of College Park, Md., A. B. University of Maryland, 1948; M. A., 1949. Art.

Francis Colin Haber, of Baltimore, Md., B. A. University of Connecticut, 1948. History.

A Study of David Baillie Warden, and His Role as American Cultural Ambassador to France.

Marguerite Frost Hall, of Baltimore, Md., B. A. Bryn Mawr College, 1946. Romance Languages.

Vernon Ray Hancock, of Baltimore, Md., B. S. Virginia Polytechnic Institute, 1948. Mathematics.

Eugene Rae Harcum, of Arlington, Va., B. S. College of William and Mary, 1950. Psychology.

Carol Evelyn Beryl Hopkins, of Ottawa, Ont., Canada, B. A. Queen's University, Kingston, Ont., 1946. English.

Ray Hyman, of Everett, Mass., A. B. Boston University, 1950. Psychology.

Richard Eugene Kent, of Steveston, B. C., Canada. Oceanography.

Carol Knudsen, of Brooklyn, N. Y., A. B. Brooklyn, N. Y., A. B. Brooklyn College of the City of New York, 1951. Classics.

Morton Arthur Lambert, of Parkton, Md., Ph. B. University of Chicago, 1947. Romance Languages.

Eugenia Potts Lester, of State College, Pa., A. B. Radcliffe College, 1950. Education.

Melecio Salomon Magno, of Nueva Ecija, Republic of the Philippines, B. S. University of the Philippines, 1940. Physics.

Archie Miller McFarland, of San Antonio, Tex., M. A. Texas Agricultural and Mechanical College, 1946; B. S. M. E., 1946. Geography.

An Investigation of the Wind Shear Stress over a Lake Surface.

George Ellwood McGowan, of Baltimore, Md., A. B. Western Maryland College, 1931. Chemistry.

Sister Mary Elissa McGuire, of Baltimore, Md., A. B. College of Notre Dame of Maryland, 1945. Political Economy.

The National Stabilization Fund as Forerunner of the International Monetary Fund.

James Milholland, of Pittsburgh, Pa., A. B. Pennsylvania State College, 1947. History.

The Selborne Reform: A Study of Democracy and Education in the British Navy, 1902-1914.

Laura Jane Miller, of Baltimore, Md., A. B. Eastern Nazarene College, 1948. Education.

Robert Wilson Mueller, of Milwaukee, Wis., B. A. St. John's College, 1947. History.

Conservative Opinion of Disraeli's Social Reform Program of 1875.

William Howard Muir, of Meadville, Pa., B. S. Allegheny College, 1949. Biology.

Heslett Killin Murray, of Washington, D. C., B. A. London University, 1936. Romance Languages.

James William Ogilvie, Jr., of Orlando, Fla., B. S. Rollins College, 1950. Chemistry.

Julie Renée O'Hearne, of Baltimore, Md., B. A. Hunter College, 1949. Political Economy.

Monetary Policy, Monetary Institutions, and Economic Development in Guatemala.

Robert Ray Osborn, of Eureka, Kans., A. B. Baker University, 1941. Geography.

The Vertical Variation of Moisture in the Air Layer near the Ground and the Computation of Evaporation.

David Evan Philips, of Webster Groves, Mo., A. B. Haverford College, 1950. English.

Stanislaw Jozef Poborski, of Luslawice, Poland, B. A. University of Crakow, 1933. Geology.

The Virgin Formation of the St. George Area, Southwestern Utah.

Alice Emma Rider, of Baltimore, Md., B. S. The Johns Hopkins University, 1950. Romance Languages.

Cornelia Herring Showalter, of Baltimore, Md., A. B. Meredith College, 1942. Education.

Albert Jacob Silverman, of Baltimore, Md., B. S. The Johns Hopkins University, 1933. History.

Sidney Singer, of Baltimore, Md., A. B. The Johns Hopkins University, 1950. History.

Business Organization in Southern Germany 1450-1600.

George Cofforth Stierhoff, of Baltimore, Md., A. B. The Johns Hopkins University, 1951. Geography.

Problems in the Regulation of International Telecommunications since the End of World War II.

John Howard Stover, Jr., of North Arlington, N. J., B. S. Albright College, 1939; M. D. Cornell University Medical College, 1943. Biophysics.

The Latent Period of the Visual Receptor.

Rene Simon Taube, of Vienna, Austria, Dr. of Chemistry and Pharmacy, Central University of Ecuador, 1947. German.

C. F. Meyers System der Egoistischen Moral und der Unfreiwillige Egoismus Thomas Beckets.

Philip Teitelbaum, of Brooklyn, N. Y., B. S. The College of the City of New York, 1950. Psychology.

Brother Nathanael Twombly, C. F. X., of Tunbridge Wells, England, A. B. Mount St. Joseph's College, Baltimore, 1916. Romance Languages.

Kenneth Newcomer Weaver, of Lancaster, Pa., B. S. Franklin and Marshall College, 1950. Geology.

John Harold Webb, of Baltimore, Md., A. B. St. Mary's University, Baltimore, 1943. Education.

Jerome Williams, of Baltimore, Md., B. S. University of Maryland, 1950. Oceanography.

Theodore Alexander Woronka, of Baltimore, Md., B. S. The Johns Hopkins University, 1948. Education.

A Study of the School Code of the State of Maryland with an Evaluation of the Code on the State Board and Chief State School Officer Level.

Harold William Yates, of Hagerstown, Md., B. E. The Johns Hopkins University, 1944. Physics.

George Joseph Zebian, Jr., of Coaldale, Pa., A. B. Muhlenberg College, 1950. Classics.

(63)

DOCTOR OF EDUCATION

WITH TITLE OF DISSERTATION

✓ James Frederick Weaver, of Baltimore, Md., B. S. Bucknell University, 1936; M. S., 1941.

Skill in Subtraction: The Effect of Changing from the Method of Decomposition to the Method of Equal Additions.

(1)

DOCTORS OF PHILOSOPHY

WITH TITLES OF DISSERTATIONS

Sister M. Audrey Aaron, O. S. B., of Atchison, Kans., A. B. Mount St. Scholastica College, 1934; M. A. The Johns Hopkins University, 1950. Romance Languages.

Christological Concepts in the Non-Dramatic Lyric Poetry of Lope de Vega.

✓ Laurence Eugene Andrews, Jr., of Massapequa, N. Y., B. S. Virginia Polytechnic Institute, 1949. Geology.

Structure of the Area North of Roanoke, Virginia.

✓ Walter John Angulo, of Baltimore, Md., B. E. The Johns Hopkins University, 1943. Chemical Engineering.

An Equation for the Adsorption Wave.

Louise Allen Armstrong, of Baltimore, Md., A. B. Bryn Mawr College, 1942. Romance Languages.

The Medieval Latin Hymn: A Study of a Literary Genre as It Developed in a Dying Language.

Jane Fox Barlow, of Pottstown, Pa., A. B. Smith College, 1947; M. A. The Johns Hopkins University, 1949. Classics.

Metrical Word-types in the Latin Hexameter.

James Francis Battey, of Edgewood, R. I., Sc. B. Brown University, 1943. Physics.

Alpha-gamma Angular Correlations in the Decay of Radiothorium.

William Milton Benesch, of Baltimore, Md., A. B. Lehigh University, 1942; M. A. The Johns Hopkins University, 1950. Physics.

The Pressure Broadening of Individual Spectral Lines in the Infrared.

✓ Lincoln Brice Bucklin, of Portland, Wash., A. B. University of Washington, 1941; M. A. The Johns Hopkins University, 1949. Romance Languages.

Liturgical Influence on Popular Spanish.

✓ Eleanor Webster Bulatkin, of Baltimore, Md., M. A. The Johns Hopkins University, 1950. Romance Languages.

The Expression of the Concept "Nuance" in Spanish, Italian and French.

✓ Suzanne Catharine Carson, of Maywood, Ill., A. B. University of Minnesota, 1941; M. A. The Johns Hopkins University, 1948. History.

Samuel Chapman Armstrong: Missionary to the South.

Mary Margaret Clarke, of Wilkes-Barre, Pa., A. B. College Misericordia, 1944; M. A. Fordham University, 1946. Political Science.

Justice Murphy and the Problem of Civil Liberties.

William Henry Cloud, of Baltimore, Md., A. B. The Johns Hopkins University, 1943. Physics.

Pressure Broadening of Pure Rotation Lines of the Water Vapor Spectrum from 490 to 590 Wave Numbers.

✓ Jackson Irving Cope, of Chicago, Ill., A. B. University of Illinois, 1950. English.

Life and Works of Joseph Glanvill.

Janice Martin Cordray, of Baltimore, Md., A. B. Goucher College, 1943; M. A. The Johns Hopkins University, 1949. Classics.

The Structure of Horace's *Odes*.

✓ John Ellis Craps, of Gainesville, Fla., A. B. University of South Carolina, 1932; M. A. University of Vermont, 1934. German.

Goethe's Criticism of Klopstock, the Bards and the Göttinger Dichterbund.

Vincent Paul De Santis, of Birdsboro, Pa., B. S. West Chester State Teachers College, Pa., 1941. History.

Republican Efforts to Break Up the Democratic South, 1877-1892.

Isadore Dordick, of Philadelphia, Pa., A. B. University of Pennsylvania, 1933; M. A. 1937. Geography.

Climate and Human Welfare in Australian New Guinea.

Edgar Owen Edwards, of Granville, N. Y., A. B. Washington and Jefferson College, 1947; M. A. The Johns Hopkins University, 1949. Political Economy.

Studies on the Growth of Individual Firms with Application to Firms in the Chemical Industry.

James Tait Elder, of Baltimore, Md., A. B. University of North Carolina, 1947. Physics.

Pressure Broadening of an Isolated Infrared Line of Methane.

✓ Frank Chris Erk, of Evansville, Ind., A. B. Evansville College, 1948. Biology.

Evolutionary Studies of Chromosomal Aberrations in Laboratory Populations of *Drosophila melanogaster*.

✓ Solomon David Erulkar, of Bombay, India, A. B. University of Toronto, 1948; M. A. 1949. Physiology.

The Central Projections of the Tactile and Auditory Systems in the Pigeon.

✓ Carmen Fernandez Cerra, of Santurce, Puerto Rico, A. B. Manhattanville College of the Sacred Heart, 1943; M. A. University of Puerto Rico, 1951. Romance Languages.

El Lirismo en los Argumentos Históricos de Lope de Vega.

✓ Stanley Friedman, of Brooklyn, N. Y., A. B. University of Illinois, 1948. Biology.

Genetic, Nutritional and Biochemical Studies on the Luminous Bacterium, *Achromobacter fischeri*.

Robert Walter Gelinas, of Baltimore, Md., B. E. The Johns Hopkins University, 1943. Physics.

Magnetic Analysis of Reactions Resulting from the Deuteron Bombardment of Beryllium-9 and Lithium-6.

✓ Hubert Smith Gibbs, of Des Moines, Iowa, B. S. University of Iowa, 1939; M. A. University of Minnesota, 1940. Political Science.

Domestic Diplomacy: A Study of "Bipartisan" Foreign Policy.

✓ Charles Henry Glatfelter, of Glen Rock, Pa., A. B. Gettysburg College, 1946. History.

The Colonial Pennsylvania German Lutheran and Reformed Clergyman.

Thomas Edward Gompf, of Pikesville, Md., A. B. The Johns Hopkins University, 1948; M. A., 1949. Chemistry.

Chemical Investigations Related to the Synthesis of Caryophyllenic Acid.

Floyd Cresswell Haley, of Baltimore, Md., B. S. Concord College, 1946; M. A. The Johns Hopkins University, 1950. Chemistry.

The Silsbee Effect in Superconducting Niobium Nitride.

✓ Joseph Harris, of Baltimore, Md., B. S. University of Maryland, 1947; M. A. The Johns Hopkins University, 1949. Physiological Chemistry.

Flavoenzyme Catalysis. Characteristics of Milk Xanthine Oxidase.

Norval John Hawkins, of Baltimore, Md., A. B. The Johns Hopkins University, 1948; M. A., 1949. Chemistry.

The Structure of PSF_3 and POF_3 from Microwave Spectroscopy.

✓ Ronald Floyd Howell, of Birmingham, Ala., A. B. University of the South, 1949; M. A. The Johns Hopkins University, 1951. Political Science.

Conservative Influence on Constitutional Development, 1923-1937: The Judicial Theory of Justices Van Devanter, McReynolds, Sutherland, and Butler.

✓ Catesby Thomas Jones, of Baltimore, Md., A. B. University of Chicago, 1938; M. A. University of Maryland, 1949. Geography.

A Comparative Study of Northern and Southern Pastoral Nomadism in Asia.

✓ Nathaniel Lewis Kaderly, of Macon, Ga., A. B. Mercer University, 1941; M. A., 1942. English.

The Later Literary Career of Robert Southey with Particular Reference to His Social Criticism.

George McTurnan Kahin, of Baltimore, Md., B. S. Harvard University, 1940. Political Science.

Nationalism and Revolution in Indonesia.

✓ Thomas Oden Lambdin, of Frederick, Md., A. B. Franklin and Marshall College, 1948. Oriental Seminary.

Egyptian Loanwords and Transcriptions in the Ancient Semitic Languages.

Robert Lewis, of Baltimore, Md., A. B. St. John's College, 1937. Romance Languages.

The Development of the French Short Story 1795-1850.

✓ Robert Bruce Lloyd, of Toledo, Ohio, A. B. Oberlin College, 1948; M. A. The Johns Hopkins University, 1949. Classics.

Servius and the Scholia Danielis on the Latin Authors of the Republic.

✓ Edward Ford MacNichol, Jr., of Glyndon, Md., A. B. Princeton University, 1941. Biophysics.

The Effects of Cations upon Photoreceptors: A Method of Studying the Effects of the Chemical Environment on the Response to Light of the Visual Sense Cells of *Limulus* and Its Use in Determining the Effects of Altered Concentrations of Potassium and Calcium.

Albert J. Meyer, Jr., of Glendale, Calif., A. B. University of California, Los Angeles, 1941; M. A., 1942. History.

History of the California Fruit Growers Exchange, 1893-1920.

Kenneth Jay Miller, of Baltimore, Md., B. S. Eastern Nazarene College, 1949; M. A. The Johns Hopkins University, 1950. Chemistry.

The Measurement of the Partial Molal Entropies of the Silver and Iodide Ions.

Robert Lancelot Myers, of Stratford, Ont., Canada, A. B. University of Western Ontario, 1948; M. A. The Johns Hopkins University, 1949. Romance Languages.

The Dramatic Theories of Elie-Catherine Freron.

Richard Eugene Patterson, of York, Pa., A. B. Gettysburg College, 1948; M. A. The Johns Hopkins University, 1950. Chemistry.

Some Conductance Studies of Ferric Chloride Complexes in Nitrobenzene and Benzonitrile at 25°C.

Lawson Lawrence Rosenberg, of Baltimore, Md., A. B. The Johns Hopkins University, 1940. Physiological Chemistry.

Equilibria in Protein-Ferromesoporphyrin IX Systems.

William Raymond Ruby, of Rensselaer, N. Y., A. B. The Johns Hopkins University, 1943; M. A., 1948. Chemistry.

A Synthetic Approach to Analogues of Auxin-b Lactone.

✓ John Donald Ryan, of Norristown, Pa., A. B. Lehigh University, 1943; M. S., 1948. Geology.

The Sediments of Chesapeake Bay.

Karl Marx Schmidt, Jr., of Utica, N. Y., A. B. Colgate University, 1948; M. A. The Johns Hopkins University, 1950. Political Science.

The Wallace Progressive Party.

✓ John Burnham Shaw, of Oberlin, Ohio, A. B. Oberlin College, 1947. English.

The Life and Works of John Hall of Durham.

✓ Thomas Smyth, Jr., of Shippensburg, Pa., A. B. Princeton University, 1948. Biology.

The Modification of Flight Activity in Diptera.

Edward Dennis Sokol, of Franklin, N. H., A. B. The Johns Hopkins University, 1947. History.

The Revolt of 1916 in Russian Central Asia.

David Walter Steinhaus, of Lake Forest, Ill., A. B. Lake Forest College, 1941. Physics.

Short Period Investigations in Spark Discharges.

Jack Howard Taylor, of Memphis, Tenn., B. S. Southwestern at Memphis, 1944. Physics.

Experimental Studies in the Infrared.

✓ Morris Tepper, of Washington, D. C., A. B. Brooklyn College, 1936; M. A., 1938. Civil Engineering.

The Application of the Hydraulic Analogy to Certain Atmospheric Flow Problems.

John Stearns Thomsen, of Baltimore, Md., B. E. The Johns Hopkins University, 1943. Physics.

Logical Relations among Principles of Statistical Mechanics and Thermodynamics.

Lloyd Warren Walter, of Washington, D. C., B. S. St. Olaf College, 1946. Physics.

Statistical Thermodynamics of Systems Open to Transport of Matter.

Louis Witten, of Baltimore, Md., B. E. The Johns Hopkins University, 1941; B. S. New York University, 1944. Physics.

A Model of an Imperfect Gas.

(55)